Title (en)
METHOD AND APPARATUS TO JOINTLY SYNCHRONIZE A LEGACY SDARS SIGNAL WITH OVERLAY MODULATION

Title (de)
VERFAHREN UND VORRICHTUNG ZUR GEMEINSAMEN SYNCHRONISIERUNG EINES ALT-SDARS-SIGNALS MIT ÜBERLAGERUNGMODULATION

Title (fr)
PROCÉDÉ ET APPAREIL POUR SYNCHRONISER CONJOINTEMENT UN SIGNAL SDARS PATRIMONIAL AVEC UNE MODULATION DE RECOUVREMENT

Publication
EP 2179530 A4 20120104 (EN)

Application
EP 08796982 A 20080731

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Abstract (en)
[origin: WO2009018474A1] Methods and apparatus are presented for the joint synchronization of legacy signals with overlay modulation signals in a communications system utilizing a hierarchical modulation scheme. A synchronization signal can be sent in each of the legacy and overlay bit streams, each using a different approach to frame synchronization, and the two synchronization signals can be used in a complementary manner to synchronize both bit streams. A legacy physical frame and an overlay physical frame can be aligned in time. A key synchronization signal in a legacy bit stream can be time distributed throughout a legacy transmission frame and can be utilized to assist in both the synchronization of such legacy bit stream and of an overlay bit stream. A key synchronization signal in an overlay bit stream can be sent in one fixed physical frame of an overlay transmission frame.

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Citation (search report)
- [I] EP 1528742 A2 20050504 - DIRECTV GROUP INC [US]
- [A] DE 3614638 A1 19871105 - MESSERSCHMITT BOELKOW BLOHM [DE]
- See references of WO 2009018474A1

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